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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/708,807	03/26/2004	Christopher A. Tokarz	018300-001349	2806
24239	7590	08/24/2006		EXAMINER
MOORE & VAN ALLEN PLLC P.O. BOX 13706 Research Triangle Park, NC 27709				YEE, DEBORAH
			ART UNIT	PAPER NUMBER
			1742	

DATE MAILED: 08/24/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/708,807	TOKARZ ET AL.
	Examiner Deborah Yee	Art Unit 1742

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on ____.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-27 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) Claim(s) ____ is/are allowed.
- 6) Claim(s) 1-27 is/are rejected.
- 7) Claim(s) ____ is/are objected to.
- 8) Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 26 March 2004 is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. ____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. ____ .
3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>4-30-04</u> .	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
	6) <input type="checkbox"/> Other: ____ .

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1 to 27 are rejected under 35 U.S.C. 102(b) as being anticipated by

Hensger et al (US Patent 6,030,470) or Hensger et al (US Patent 6,231,696).

3. Hensger'470 in claims 1 to 6 in columns 4-6 and Hensger'696 in claims 1 to 5 of columns 4 –6, each disclose a thermomechanical process for hot rolling high-strength low-alloy steel made by compact strip production into a thin slab, the process comprising deforming the thin slab at least at one roll stand in the full recrystallization region of austenite in the steel and next deforming the thin slab at least at one roll stand in the region below the recrystallization stop temperature of the austenite in the steel which anticipates the present invention.

4. See Figure in Hensger'470 wherein the thermomechanical process comprises the steps of deforming the thin slab at the first, second, third and fourth roll stands in the recrystallization region and at the fifth, sixth and seventh roll stands in the non-recrystallization region. Also similar to present invention, Hensger'470 on lines 5 to 13 in column 3 and in the figure teach omitting deformation at roll stands 5 and 7 in order to provide a sufficient amount of time to ensure recrystallization to be complete.

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5. Moreover, Hensger'696 on lines 56 to 67 in column 3 teaches a microalloyed steel having a composition with wt% ranges which suggest the recited claimed steel composition.
6. Even though reduction strain and inter-pass time between rolls as recited by one or more claims is not taught by prior art, such limitations would be expected in prior art process since similar to present invention grain refinement and homogenous microstructure are obtain to optimize mechanical properties.
7. Claims 1 to 27 are rejected under 35 U.S.C. 102(b) as being anticipated by Declaration submitted by applicant in IDS dated April 30, 2004.
8. The Declaration admitted that applicants sold the product (paragraph 17-22) made by their process. Applicants refer to the sale as experimental (paragraph 21), but they provide no evidence of confidentiality and control. See MPEP 2133.03(e).

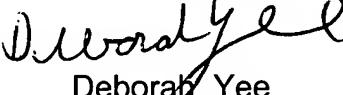
9. The unapplied reference has been cited to further depict the state of the art in CSP rolling.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Deborah Yee whose telephone number is 571-27211253. The examiner can normally be reached on Monday, Tuesday and Thursday from 6:00AM-2:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on 571-272-1244. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Deborah Yee
Primary Examiner
Art Unit 1742

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